

CLAIMS

1. A folding lamp rod and junction box structure for lamps comprised of a junction box and lamp rods hinged to said junction box, wherein:
 - 5 said junction box has a plurality of portals appropriately arrayed along the plane of its circumference and, furthermore, a pivot hole is formed in the top surface at the lateral edge of each said portal in said junction box to provide for movably locating said lamp rods;
 - 10 each said lamp rod has a joint section at its proximal extremity that is hinged to said junction box and, furthermore, said joint section is coupled via said junction box the pivot hole; said lamp rod has a spring element situated at an appropriate area and, furthermore, the vertex portion of said spring element protrudes slightly to the circumferential edge of said lamp rod such that when its joint section is conjoined to said junction box, said spring element vertex portion engages the lateral edge of said junction box portal, thereby securing said lamp rod onto said
 - 15 junction box portal;
- as such, said lamp rod and said junction box angle can be appropriately adjusted into a parallel arrangement to thereby reduce the overall space occupied by said lamp rods and said junction box when they are shipped.

2. As mentioned in Claim 1 of the folding lamp rod and junction box structure for lamps of the invention herein, each said junction box portal has a thickness along its peripheral edge that is contoured inward a certain degree and the circumferential surface of said swivel block is checked against said junction
5 box peripheral edge, with said circumferential surface of said swivel block and said junction box having the same degree of curvature.

3. As mentioned in Claim 1 of the folding lamp rod and junction box structure for lamps of the invention herein, said lamp rod is conjoined to said junction box by means of a threaded stud fastened in a said swivel block and,
10 furthermore, said swivel block circumferential surface and said junction box circumferential edge are congruent circle segments, a joint section is contoured over the side of said swivel block such that it extends into said junction box, and said joint section is aligned with said junction box pivot hole and movably positioned thereon by an inserted pintle; a stepped surface is formed such it recedes
15 towards the inner edge of said swivel block circumferential surface and, furthermore, a clearance hole is disposed in said stepped surface near said circumferential surface; a lock ring is prepositioned on the opposite end of said threaded stud inserted through said swivel block and a nut installed onto the opposite end of said threaded stud to fasten said lock ring into position on the side

of said swivel block.

4. As mentioned in Claim 3 of the folding lamp rod and junction box structure for lamps of the invention herein, said lock ring has a laterally projecting, <-shaped spring element and, furthermore, the free end of said spring element 5 extends into said swivel block clearance hole, enabling its vertex portion to protrude slightly to the side of said swivel block circumferential surface.

5. A folding lamp rod and junction box structure for lamps comprised of a junction box and lamp rods hinged to said junction box, wherein said junction box has a hinge mount projecting laterally from a said portal and, furthermore, said 10 lamp rod includes a hinge tab that enters said hinge mount, a pintle is inserted downward through said hinge tab to position said hinge tab onto said hinge mount; a <-shaped spring element is situated in the proximal extremity of said lamp rod and, furthermore, the vertex portion of said <-shaped spring element protrudes slightly to the circumferential edge of said lamp rod such that when its joint section 15 is conjoined to said junction box, said spring element vertex portion engages the lateral edge of said junction box portal, thereby securing said lamp rod onto said junction box portal.

6. A folding lamp rod and junction box structure for lamps comprised of a

junction box and lamp rods hinged to said junction box, wherein said junction box has a pivot hole disposed in its top surface at the side of a said portal that provides for movably locating said lamp rod and, furthermore, said lamp rod includes an arcuate hinge tab emerging from its extreme outer edge such that said hinge tab is
5 articulated into said junction box pivot hole; a joint section is aligned with said pivot hole and, furthermore, a pintle is inserted sequentially through said pivot hole and said lamp rod joint section and said lamp rod is located onto a hinge mount; a <-shaped spring element is situated in the proximal extremity of said lamp rod and, furthermore, the vertex portion of said <-shaped spring element protrudes
10 slightly to said lamp rod circumferential edge such that when its joint section is conjoined to said junction box, said spring element vertex portion engages the lateral edge of said junction box portal, thereby securing said lamp rod onto said junction box portal.